Curriculum Vitae
Catherine L. Dumas
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EDUCATION

Expected 5/2018
Ph.D. in Information Science, University at Albany, NY
Knowledge Organization and Management (Primary Specialization)
Information in Organizational Environments (Secondary Specialization)

Dissertation: "The Dynamics of E-petitioning Behavior in *We the People*: An Exploration of Online Mobilized Collective Action"

Dissertation Committee: Teresa Harrison (Co-chair), S.S. Ravi (Co-chair), Luis Luna-Reyes

2011
MS in Information Studies, University at Albany, NY

2008
BA in English, The College of Saint Rose, Albany, NY

TEACHING EXPERIENCE

8/2012-Present
Instructor, Informatics Department, College of Engineering & Applied Sciences**,** University at Albany, State University of New York

- Senior Seminar: Topics in Informatics (Face-to-Face, Online & Blended)
- Current Topics in Social Media (Face-to-Face & Blended)
- Programming for Problem Solving (Online)
- Introduction to Computing and Information (Face-to-Face & Online)
- Introduction to Web Development (Scheduled to teach in Summer 2018 session, Online)

- Contributed to the design of the Informatics Department's proposed Bachelor of Science Program

REFEREED JOURNAL ARTICLES

Dumas, C., LaManna, D., Harrison, T.M., Ravi, S.S., Kotfila, C., Gervais, N., Hagen, L., & Chen, F. (2015). Examining political mobilization of online communities through e-petitioning behavior in We the People. *Big Data & Society*, 2(2), 2053951715598170.

Budd, J. M. & **Dumas, C.** (2014). Epistemic multiplicity in iSchools: Expanding knowledge through interdisciplinarity. *Canadian Journal of Information and Library Science* 38(4), 271-286. University of Toronto Press.

BOOK CHAPTERS

Hagen, L., Harrison, T.M., and **Dumas, C.** (2018). Data analytics for policy informatics: The case of e-petitioning. In J. R. Gil-Garcia, T. A. Pardo, and L. F. Luna-Reyes (Eds.) *Policy Analytics, Modeling, and Informatics: Innovative Tools for Solving Complex Social Problems*.

Dumas, C., Harrison, T.M., and Zhao, X. (2017). What do the people think?: E-petitioning and policy decision making. In A. A. Paulin, L.G. Anthopoulos, and C. C. Reddick (Eds.) *Beyond Bureaucracy: Towards Sustainable Governance Informatization*.

Yuan, X. & **Dumas, C**. (2012). Cyber behaviors in seeking information. In Z. Yan (Ed.), *Encyclopedia of Cyber Behavior* (pp. 365-382). Hershey: IGI Global.

CONFERENCE PAPER PROCEEDINGS

Harrison, T.M., **Dumas, C.**, Depaula, N., Fake, T., May, W., Atrey, A., Lee, J., Rishi, L., and Ravi, S.S. (2017). E-Petitioning and online media: The case of #BringBackOurGirls. In *Proceedings of the 18th Annual International Conference on Digital Government Research* (pp. 11-20). ACM.

Dumas, C., LaManna, D., Harrison, T. M., Ravi, S.S., Hagen, L., Kotfila, C., and Chen F. (2015). E-petitioning as collective political action in We the People. *iConference Proceedings*.

Harrison, T. M., **Dumas, C**., Kotfila, C., LaManna, D., & Ravi, S. (2014). We the People: US e-petitioning as technology-mediated social action. In *Annual Conference of the International Communication Association*, Seattle, WA.

Budd, J., & **Dumas, C.** (2014). Challenges to creative communication: Prolegomena to narrative reformation. In *Proceedings of the Annual Conference of CAIS*.

OTHER PUBLICATIONS

Dumas, C., & Rorissa, A. (2014). ASIS&T: The student perspective. *Bulletin of the Association for Information Science and Technology*, *40*(5), 23-27.

MANUSCRIPTS IN SUBMISSION

Harrison, T.M., **Dumas, C.**, Depaula, N., Fake, T., May, W., Atrey, A., Lee, J., Rishi, L., and Ravi, S.S. (in review). E-Petitioning and online media: The case of #BringBackOurGirls. *Government Information Quarterly*.

AWARDS/HONORS

2017	**Best Research Paper Award** for "E-Petitioning and Online Media: The Case of #BringBackOurGirls". 18th Annual International Conference on Digital Government Research, Staten Island, New York
2015	**Best Poster Award** for "E-petitioning: Exploring Citizen's Contributions to the Policy Making Process".16th Annual International Conference on Digital Government Research, Phoenix Arizona
2012	Kathy Turek **Women and Technology, Initiatives for Women Award**, University at Albany, State University of New York
2012 -2013	**New Leaders Award**, Association for Information Science & Technology, Mentor: Dr. Rong Tang
2012	**Best Poster Award** for "Social Network Analysis: Examining Co-authorship and Aquaintanceship of a Multidisciplinary College in a Research University (CCI - SUNY Albany)" with Jayadevan Vijayan, Maleq Kahn & Chris Kuhlman. New Trends in Computing and Informatics Research, The University at Albany, State University of New York
2011	**Excellence in Service** to the College and/or University Community Award College of Computing and Information, University at Albany, State University of New York

GRANTS/FUNDING

2016	Funding to design and teach a blended (online/face-to-face) version of the Senior Seminar in Informatics course as part of a grant awarded to the Institute for Teaching, Learning and Academic Leadership at the University at Albany, $1500
2015	University Auxiliary Services program grant for ASIS&T Student Chapter Open Source Festival, $500.00
2014	University Auxiliary Services program grant for ASIS&T Student Chapter Open Source Festival, $250.00
2013	University Auxiliary Services program grant for ASIS&T Student Chapter Open Source Festival, $250.00

2012	University Auxiliary Services program grant for ASIS&T Student Chapter Open Source Festival, $250.00
2012	Association for Information Science & Technology New Leaders Award, $1500
2012	Kathy Turek Women and Technology Award, Initiatives for Women to support research, $500.00
2012	University Auxiliary Services program grant for ASIS&T Student Chapter Technical Workshop Series, $300.00
2012	College of Computing & Informatics, State University of New York at Albany for ASIS&T Student Chapter Open Source Festival, $1300
2011	University Auxiliary Services program grant for ASIS&T Student Chapter Open Source Festival, $250.00

CONFERENCE PARTICIPATION/ACTIVITIES

Panels

Dumas, C. (2016). Exploring E-petitioning Systems in the United States: 21st Century Citizen Action. Panel Presentation in "Petitioning East and West: Historical Forms of Participation with Contemporary Application to Digital Government." Presented at the *17th International Digital Government Research Conference on Digital Government Research*.

Frankl, P., Stent, A., Gonsiorowski, E., and **Dumas, C**. (2016). Graduate School. ACM-W New York Celebration of Women in Computing in Lake George, NY

Hagen, L., Kropczynski, J., **Dumas, C.,** Lee, J., Vasquez, F. E., & Rorissa, A. (2015). Emerging trends in the use and adoption of E-participation around the world. In *Proceedings of the Association for Information Science and Technology*, *52*(1), 1-4.

Dumas, C., Gervais, N., Hororwitz, L., Kassab, D. (2013). Team Based Learning: An Instructional Strategy that Works! Conference on Instruction & Technology, SUNYIT, Utica, NY

Posters

Dumas, C. L., Atrey, A., Lee, J., Harrison, T. M., Fake, T., Zhao, X., & Ravi, S. S. (2016, June). E-petition Information Diffusion in Online Social Networks. In *Proceedings of the 17th International Digital Government Research Conference on Digital Government Research* (pp. 515-517). ACM

Dumas, C. L. (2015, May). E-petitioning: exploring citizen's contributions to the policy making process. In *Proceedings of the 16th Annual International Conference on Digital Government Research* (pp. 335-337). ACM. Best Poster Award.

Dumas, C., Vijayan, J., Kahn, M., & Kuhlman, C. (2012). Social network analysis: Examining co-authorship and acquaintanceship of a multidisciplinary department in a research university. *#influence12: Symposium & Workshop: Measuring Influence on Social Media*, Dalhousie University, School of Information Management, Halifax, Nova Scotia, Canada

Yuan, X., Belkin, N., Jordan, C., & **Dumas, C**. (2011). Design of a study to evaluate the effectiveness of a spoken language interface to information systems. In *Proceedings of the Association for Information Science and Technology*, 48(1), 1-3**.**

Yuan, X, **Dumas, C.,** Belkin, N., & Jordan, C. (2011). Design of a study to evaluate the effectiveness of a spoken language interface to information systems. Human Computer Interaction Workshop, Google Campus, Mountain View, CA

Workshops

Dumas, C., Ibanez, L., Kassab, D., and Weintraub, E. (2016). Git: An Essential Collaboration Tool in Software Engineering. ACM-W New York Celebration of Women in Computing in Lake George, NY

Dumas, C., Kassab, D., Goodall, J. Ibanez, L. (2015). Open Source as Context to Cultivating Technical and Social Skills. Grace Hopper Celebration of Women in Computing, Houston, TX

Khan, M., Kuhlman, C., Ravi, S.S., **Dumas, C.,** (2015). Use of CINET in Education and Research. University at Albany, Albany, NY

Talks

Dumas, C., LaManna, D. Harrison, T.M., Ravi, S.S., Kotfila, C., Gervais, N., Hagen, L., and Chen, F. (2014). Examining political mobilization of online communities through E-Petitioning Behavior in We the People (extended abstract) Social Media & Society Conference, Ryerson University, Toronto, Canada

Ku, M., Rethemeyer, R.K., & **Dumas, C.** (2013). The dynamics of academic knowledge sharing: An empirical analysis of social capital and homophily in a coauthorship network. In *Prodeedings of Public Management Research Conference*. Madison, Wisconsin

Dumas, C. (2011). Study of User Perceptions of PubMed Interface, Search and Browsing Behaviors, New York Celebration of Women in Computing, Albany, NY

DOCTORAL COLLOQUIUM/SYMPOSIUM

16th Annual International Conference on Digital Government Research, Phoenix Arizona, May 27-30, 2015

Association for Information Science & Technology Annual Meeting, Wash. DC, October 27-November 2, 2017

RESEARCH EXPERIENCE

5/2013-Present **Data Analyst,** Project Petition, working with Dr. Teresa Harrison, Communication Department, Dr. S.S. Ravi and Dr. Feng Chen, Computer Science Department, Dr. Ozlem Uzuner, Information Studies, and several other graduate students, University at Albany, State University of New York
- Working with large data sets of petition signatures and petitions from online petition websites
- Exploring petition information diffusion using Twitter data
- Analyzing the data using different research techniques namely, data mining and social network analysis
- Managing database of e-petition data

5/2013-8/2013 **Software Evaluator,** Kitware Inc., Clifton Park, NY
- Reviewed third party code to evaluate and test software
- Trained with MUMPS, Python, CMake, Administration tools for Windows and Linux
- Researched tools for semantic web healthcare EHR and helped write report to be used for funding proposal

1/2011-8/2011 **Research Assistant,** Human Computer Interaction Lab, under the direction of Dr. Xiaojun Yuan, College of Computing and Information, University at Albany
- Recruited and scheduled 48 subjects to participate in user study project "Investigating People's Search Behavior on Medical-Related Tasks."
- Ran all 48 experiments, collected the data through logging software and other instruments, and observed the users interaction during the search sessions.
- Conducted and transcribed 48 exit interviews for further analysis.

9/2010-8/2012 **Graduate Research Assistant**, Human Computer Interaction Lab, for Dr. Xiaojun Yuan, College of Computing and Information, University at Albany
- Designed and conducted a Wizard-of-Oz study of spoken language recognition interface to investigate the efficacy and usability of spoken and gestural interaction with information systems.

- Designed numerous factual, interpretive, and exploratory tasks that were used in "Speak To Me" experiments to test information retrieval systems
- Conducted experiments with 25 pilots; Conducted exit interviews with 25 pilot subjects.
- Evaluated prototype interface/systems, employed heuristic evaluation and cognitive walkthrough methods.
- Conducted research and wrote literature reviews on several areas of research within the field of Human Computer Interaction.
- Conducted pilot studies for data collection in a project involving medical queries
- Created tutorials for prototype interfaces for subjects in experiment.

2/2010-7/2010   **Special Projects Coordinator,** Internship, New York Library Association, Guilderland, NY
- Research assistant for executive director on several projects
- Collected and organized information in company's databases
- Provided content management on various company websites
- Created lists of contact data to be used in mailings
- Edited publications, programs, and other circulating materials
- Collaborated with staff in facilitating Lobby Day, 2010, Empire State Book Festival, and NYS Writer's Hall of Fame Gala

RESEARCH INTERESTS

Online collective action, analyzing e-petitioning behavior, analyzing social media content, social network analysis in online communities and organizations, information diffusion, social informatics, human computer interaction, usability testing, and open source.

TECHNICAL SKILLS

- **Web Development:** HTML, CSS, JavaScript
- **Databases:** MySQL, Access
- **Programming:** R, Python
- **Version Control Systems**: Git
- **Statistical Tools:** R, SPSS
- **Network Analysis Tools**: R, Gephi, UCINET, CINET, NodeXL
- **Usability Testing Tools**: TechSmithMorae
- **Online Learning Development Tools**: Camtasia, Blackboard

- **Operating Systems:** Windows, Mac, Linux

PROFESSIONAL AFFILIATIONS/MEMBERSHIPS

Association for Information Science & Technology
Association for Computing Machinery Women
Digital Government & Society
International Network of Social Network Analysis
College of Engineering & Applied Sciences Women in Technology, University at Albany
Capital District Women in Technology

PROFESSIONAL ORGANIZATION COMMITTEE SERVICE

2017-Present	**Track Chair**, Participatory Democracy, Digital Government & Society, International Conference on Digital Government Research
2017-Present	**SIG Cabinet Steering Committee Member**, Association for Information Science & Technology
2017-Present	**Registration Co-Chair**, Digital Government & Society, International Conference on Digital Government Research
2014-Present	**SIG Cabinet Representative**, Special Interest Group: International Information Issues (SIG III), Association for Information Science & Technology
2013-Present	**Communications Officer**, Special Interest Group: Social Informatics (SIG SI), Association for Information Science & Technology
2017	**Best Paper Award Judge**, Association for Information Science & Technology Special Interest Group Social Informatics (SIG SI), Annual Meeting
2016-2017	**Committee Member**, New Leaders Award Selection Committee, Association for Information Science & Technology
2012-2015	**Program Committee Member**, Social Media & Society International Conference
2010	**Organizer**, New York Library Association, 1st Empire State Book Festival & the NYS Writer's Hall of Fame

UNIVERSITY AT ALBANY SERVICE

2012-Present	**Co-Chair Advisor**, Association for Information Science & Technology, UAlbany Student Chapter
2010-Present	**Co-Founder, Organizer and Team Leader**, Open Source Festival, University at Albany, State University of New York
2014-2016	**Steering Committee Member**, President's Forum on Data, University at Albany, State University of New York
2013-2016	**Lead Organizer**, Rare Disease Hackathons, University at Albany, State University of New York

2012	**Grants Review Committee Member**, University of Albany, Graduate Student Organization
2012	**Chair Public Relations, Co-Chair Program Coordination, Co-Chair Submission Review Committee,** New Trends in Informatics Research Conference, State University of New York at Albany
2011-2012	**President**, Association for Information Science & Technology, UAlbany Student Chapter
2009-2010	**Chair of Publicity & Membership**, Association for Information Science & Technology, UAlbany Student Chapter

COMMUNITY OUTREACH

2016	**Co-Instructor**, Hour of Code, Montessori Magnet School, Albany, NY, Volunteer to guide 5th grade students through an Hour of Code event (20-25 students per class)
2015-2016	**Community Manager**, Open Source Initiative, responsible for engaging volunteers in open source projects
2011	**Presenter**, "Accessing College Information by Computer" Black Child Development Institute's Entering the College Zone event, Presentation to at risk Albany High School youth about how to use the internet to find information regarding higher education (financial aid, college and university majors, etc.) Siena College, Loudonville, NY
2011	**Mentor**, Black Child Development Institute (BCDI), Albany High School, Albany, NY, Volunteer to assist at risk Albany High School youth with social and academic development

CONFERENCE/JOURNAL REVIEWER

- Association for Information Science & Technology
- Big Data & Society Journal
- Social Media & Society International Conference
- Digital Government & Society Conference